



CITY OF GEARHART

Staff Report

For City Council Meeting - 1/8/2025

Subject - Submission of Water Investment Needs Assessment to Legislative Water Caucus

Synopsis: This report provides the Gearhart City Council with an overview of the city's critical water infrastructure needs as part of the Legislative Water Caucus' Water Investment Needs Assessment. The identified projects reflect the city's priorities in enhancing water system reliability, fire safety, and compliance with regulatory standards. With Council approval, this information will be submitted to the Legislative Water Caucus by **January 15, 2025**.

Background and Rationale: The City of Gearhart's water infrastructure projects are critical for addressing system deficiencies, ensuring public safety, and meeting long-term operational goals. These projects were initially priced in 2018, and their costs have been updated to reflect 2025 pricing using an estimated 3% annual inflation rate. This adjustment ensures that the Legislative Water Caucus receives accurate and relevant financial data.

Next Steps:

1. Submit the Water Investment Needs Assessment data to the Legislative Water Caucus by the January 15, 2025, deadline.
2. Continue exploring funding opportunities to address the identified gaps.

Recommendation: City staff recommends that the Council approve the submission of the Water Investment Needs Assessment to the Legislative Water Caucus. This submission is a critical step in securing potential funding and support for the city's water infrastructure priorities.

Legal Analysis: None

Financial Analysis: Information Attached

Respectfully Submitted,



Chad

Legislative Water Caucus - Gearhart Water Investment Needs Assessment

Project 1: Marion Loop Construction

Project Name: Marion Loop Construction

Project Description: The construction of a waterline loop along Marion Avenue to enhance water flow and maintain system pressure under fire flow conditions at the Gearhart House resort. This project aims to meet fire flow requirements without reliance on high-flow booster pumps.

Project Location:

- **City:** Gearhart
- **County:** Clatsop

Project Type: Drinking Water

Project Status: Planning

Estimated Project Cost: \$90,000

Funding Secured: Survey for the project site is complete, but specific funding details are not mentioned.

Funding Sources: Not specified

Funding Gap: \$90,000 (assumed total cost as no funding details are provided)

Project Benefits: Improved water flow and pressure during fire events, enhancing safety and compliance with regulatory requirements.

Project Challenges: Potential logistical challenges in construction and securing necessary funding.

Project Partners: City of Gearhart Water Department and contractors for waterline construction.

Project Timeline:

- **Start Date:** TBD
- **End Date:** TBD

Additional Information: The project is classified as high priority due to fire safety concerns.

Project 2: Hillila Loop Construction

Project Name: Hillila Loop Construction

Project Description: Construction of a waterline loop along Hillila Road to improve water flow and pressure for fire safety. This project also supports compliance with regulatory requirements for fire flow conditions.

Project Location:

- **City:** Gearhart
- **County:** Clatsop

Project Type: Drinking Water

Project Status: Planning

Estimated Project Cost: \$390,000

Funding Secured: Details not provided.

Funding Sources: Not specified

Funding Gap: \$390,000

Project Benefits: Enhanced fire flow capacity and system resiliency.

Project Challenges: Potential delays in securing funding and contractor availability.

Project Partners: City of Gearhart Water Department and local contractors.

Project Timeline:

- **Start Date:** TBD
- **End Date:** TBD

Additional Information: The project is a high priority within the Capital Improvement Plan.

Project 3: Highway 101 Pipe Replacement

Project Name: Highway 101 Pipe Replacement

Project Description: Replacement of aging and undersized asbestos cement and PVC pipelines along Highway 101. This project addresses deficiencies in pipe condition and capacity to support water flow during emergencies.

Project Location:

- **City:** Gearhart
- **County:** Clatsop

Project Type: Drinking Water

Project Status: Planning for future implementation

Estimated Project Cost: \$3,710,000

Funding Secured: None

Funding Sources: Not specified

Funding Gap: \$3,710,000

Project Benefits: Improved water system reliability, reduced maintenance costs, and compliance with regulatory requirements for fire flow.

Project Challenges: High project cost and complexity in coordinating construction along a major roadway.

Project Partners: City of Gearhart Water Department, state highway agencies, and contractors.

Project Timeline:

- **Start Date:** Estimated by 2033
- **End Date:** Estimated by 2037

Additional Information: May be advanced if pipeline repairs become excessive or combined with highway improvements.

Project 4: Replace Reservoir Cathodic Protection Anodes

Project Name: Replace Reservoir Cathodic Protection Anodes

Project Description: Replacement of cathodic protection anodes in the city's reservoir to prevent corrosion and extend the lifespan of the infrastructure.

Project Location:

- **City:** Gearhart
- **County:** Clatsop

Project Type: Maintenance

Project Status: Scheduled for implementation in 2037

Estimated Project Cost: \$13,000

Funding Secured: Funded through the Water Treatment Plant Facility Equipment Maintenance fund.

Funding Sources: Water Treatment Plant Facility Equipment Maintenance fund.

Funding Gap: None

Project Benefits: Prevents corrosion, ensures structural integrity, and reduces long-term maintenance costs.

Project Challenges: None identified due to straightforward nature of replacement.

Project Partners: City of Gearhart Water Department.

Project Timeline:

- **Start Date:** TBD (Scheduled for 2037)
- **End Date:** TBD

Additional Information: This is a routine maintenance project with minimal complexity.

Project 5: Membrane Replacement

Project Name: Membrane Replacement

Project Description: Periodic replacement of water treatment plant membranes to maintain efficient water filtration and meet water quality standards.

Project Location:

- **City:** Gearhart
- **County:** Clatsop

Project Type: Water Treatment

Project Status: Ongoing

Estimated Project Cost: \$100,000 per replacement cycle (scheduled every 5 years: 2022, 2027, 2032, 2037)

Funding Secured: Funded through planned allocations.

Funding Sources: Water Treatment Plant Facility Equipment Maintenance fund.

Funding Gap: None

Project Benefits: Ensures compliance with water quality standards, improves operational efficiency, and reduces risk of system failures.

Project Challenges: Potential disruptions during replacement periods.

Project Partners: City of Gearhart Water Department.

Project Timeline:

- **Start Date:** 2022 (recurring every 5 years)
- **End Date:** 2037 (for current planning cycle)

Additional Information: Routine replacement based on the expected lifespan of membranes.

Project 6: New Filtration Skid Unit

Project Name: New Filtration Skid Unit

Project Description: Addition of a new filtration skid unit to the water treatment plant. This project includes engineering, procurement, and installation of the skid unit. The new unit will enhance water production capacity, prepare for emergencies, and extend the lifespan of the two existing skid units, while increasing the resilience of the water system.

Project Location:

- **City:** Gearhart
- **County:** Clatsop

Project Type: Water Treatment

Project Status: Planning

Estimated Project Cost: \$1,200,000

Funding Secured: None

Funding Sources: Not specified

Funding Gap: \$1,200,000

Project Benefits:

- Increases water production capacity.
- Enhances resilience during emergencies.
- Extends the operational life of existing filtration skid units.
- Ensures consistent water quality.

Project Challenges:

- High upfront cost.
- Potential logistical challenges during installation.

Project Partners: City of Gearhart Water Department and engineering consultants.

Project Timeline:

- **Start Date:** TBD
- **End Date:** TBD

Additional Information: This project is a critical component of future-proofing the city's water treatment capabilities.

Here are the updated costs for the projects, adjusted for inflation from 2018 to 2025, assuming an average annual inflation rate of 3%:

1. **Marion Loop Construction:** \$110,688.65
2. **Hillila Loop Construction:** \$479,650.81
3. **Highway 101 Pipe Replacement:** \$4,562,832.04
4. **Replace Reservoir Cathodic Protection Anodes:** \$15,988.36
5. **Membrane Replacement (per cycle):** \$122,987.39
6. **New Filtration Skid Unit:** \$1,200,000 (2024 Pricing)